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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/754,807	01/08/2004	Garnik Taheri	034559-004	1589
75	90 08/10/2005		EXAMINER	
Robert E. Krebs			POTTER, ROY KARL	
Thelen Reid & P.O. Box 64064			ART UNIT	PAPER NUMBER
San Jose, CA	se, CA 95164-0640		2822	
			DATE MAILED: 08/10/200	5

Please find below and/or attached an Office communication concerning this application or proceeding.

				<u>H·B</u>		
		Application No.	Applicant(s)			
		10/754,807	TAHERI, GARNIK			
Offic	e Action Summary	Examiner	Art Unit			
		Roy K. Potter	2822			
The MA	LING DATE of this communication a	appears on the cover sheet wit	h the correspondence address			
THE MAILING - Extensions of time after SIX (6) MON ⁻ - If the period for rep. - If NO period for reply with Any reply received	D STATUTORY PERIOD FOR REID DATE OF THIS COMMUNICATION may be available under the provisions of 37 CFR fMS from the mailing date of this communication. By specified above is less than thirty (30) days, a ply is specified above, the maximum statutory perinin the set or extended period for reply will, by state by the Office later than three months after the main adjustment. See 37 CFR 1.704(b).	N. t 1.136(a). In no event, however, may a re reply within the statutory minimum of thirty iod will apply and will expire SIX (6) MONT tute, cause the application to become ABA	ply be timely filed (30) days will be considered timely. HS from the mailing date of this communication. NDONED (35 U.S.C. § 133).			
Status						
1)⊠ Respons	ive to communication(s) filed on 23	<u>3 May 2005</u> .				
2a) This action	on is FINAL . 2b)⊠ T	his action is non-final.				
3)☐ Since this	s application is in condition for allow	wance except for formal matte	rs, prosecution as to the merits is			
closed in	accordance with the practice unde	er <i>Ex par</i> te <i>Quayle</i> , 1935 C.D.	11, 453 O.G. 213.			
Disposition of Cla	ims					
4)⊠ Claim(s)	1-23 is/are pending in the applicati	on.				
4a) Of the	e above claim(s) <u>11-19</u> is/are withd	rawn from consideration.				
5)⊠ Claim(s)	Claim(s) <u>1-10</u> is/are allowed.					
6)⊠ Claim(s)	Claim(s) <u>20-22</u> is/are rejected.					
· · · · · · · · · · · · · · · · · · ·	<u>23</u> is/are objected to.					
8) Claim(s)	are subject to restriction and	d/or election requirement.				
Application Paper	'S					
9)☐ The speci	fication is objected to by the Exam	iner.				
10)☐ The draw	ing(s) filed on is/are: a)□ a	accepted or b) objected to b	y the Examiner.			
Applicant	may not request that any objection to t	the drawing(s) be held in abeyand	e. See 37 CFR 1.85(a).			
Replacem	ent drawing sheet(s) including the corr	rection is required if the drawing(s	s) is objected to. See 37 CFR 1.121(d).			
11)⊡ The oath	or declaration is objected to by the	Examiner. Note the attached	Office Action or form PTO-152.			
Priority under 35	U.S.C. § 119					
a)□ All b) 1.□ Ce 2.□ Ce	dgment is made of a claim for fore Some * c) None of: rtified copies of the priority docume rtified copies of the priority docume pies of the certified copies of the p	ents have been received. ents have been received in Ap	plication No			
	plication from the International Bur	•	eceived in this Mational Stage			
<u> </u>	tached detailed Office action for a		eceived.			
Attachment(s)		1				
1) Notice of Referer	nces Cited (PTO-892) erson's Patent Drawing Review (PTO-948)		ımmary (PTO-413) /Mail Date			
	osure Statement(s) (PTO-1449 or PTO/SB/		formal Patent Application (PTO-152)			

DETAILED ACTION

Election/Restrictions

Applicant's election without traverse of claims 1 - 10 and 20 - 23 in the reply filed on 5/23/05 is acknowledged.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 20 – 22 are rejected under 35 U.S.C. 102(b) as being anticipated by Chang et al.

Chang et al., U.S. Patent No. 5,191,174, discloses a high-density circuit board. As shown in Figure 3, the subassembly 20 has a top surface with conductive through-holes that, as explained in column 5, line 26 can be sued to connect to other conductive elements. The circuit board also includes a middle portion including a conductive layer 25, as described in column 4, line 22. The conductive through holes also extend to the bottom surface.

Allowable Subject Matter

Claims 1 – 10 are allowed.

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The prior art including Chang et al. does not teach or suggest the recited electrically conductive layer disposed in the middle and extending to form a plurality of conductors that protrude horizontally for coupling to a main board.

Claim 23 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The prior art does not teach the recited TSOP connection to a main board.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. McMillan, U.S. Patent No. 6297458, discloses a printed circuit board.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Roy K. Potter whose telephone number is 571 272 1842. The examiner can normally be reached on M-F.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Roy K Potter Primary Examiner Art Unit 2822